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00:21: L17: (554) l16 and l13

Active

- L1: (53323) recombinant peptide
- L2: (584035) production
- L3: (1463284) method
- L4: (428200) l2 and l3
- L5: (36078) l4 and l1
- L6: (36078) l4 and l1
- L7: (194184) growth hormone
- L8: (197392) growth hormone or GH
- L9: (194234) growth hormone or GH
- L10: (127546) trisulfide bridge
- L11: (10954) trisulfide bridge and
- L12: (27957) ferment$

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09/743023

09/1

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	U	1	Document ID	Issue Dat	Pages	Title	Current OR	Current XR	Retrieval	Inv
1	☑	☐	US 6245901 B1	20010612	60	Modified polypeptide	530/402	435/192 ; 435/221		von der Claus
2	☑	☐	US 6245335 B1	20010612		Choline binding proteins for anti-pneum	424/190.1	424/244.1 ; 530/350		Masure, . et al.
3	☑	☐	US 6244265 B1	20010612		Adhesively applied external nasal strips a	128/200.24	128/207.13 ; 128/207.		Cronk, P . et al.
4	☑	☐	US 6238661 B1	20010529		Use of bacterial phage associated lysing enzym	424/94.1	424/431 ; 424/436		Fischett . et al.
5	☑	☐	US 6236946 B1	20010522		Nuclear receptor ligands and ligand bind	702/22	530/350 ; 702/19		Scanlan, . et al.
6	☑	☐	US 6235726 B1	20010522		Water insoluble derivatives of polyanio	514/57	424/424 ; 514/54		Burns, J . et al.
7	☑	☐	US 6228620 B1	20010508		Protein complexes having factor VIII:C ac	435/69.6	435/252.3 ; 435/320.		Chapman, . et al.
8	☑	☐	US 6225447 B1	20010501		Methods for producing members of specific bin	530/387.3			Winter, . Paul
9	☑	☐	US 6225341 B1	20010501		Compounds and methods for synthesis and thera	514/459	549/424		Bischofb Norbert
10	☑	☐	US 6224867 B1	20010501		Tumor necrosis factor-.alpha. and -.be	424/134.1	435/69.7 ; 530/333		Smith, C . et al.
11	☑	☐	US 6221351 B1	20010424		Tumor killing effects of enterotoxins, supera	424/93.71	424/93.1 ; 424/93.2		Terman,
12	☑	☐	US 6218513 B1	20010417		Globins containing binding domains	530/380	424/192.1 ; 424/193.		Anthony-Spencer
13	☑	☐	US 6215007 B1	20010410		Recombinant production	549/417	549/389		Khosla,

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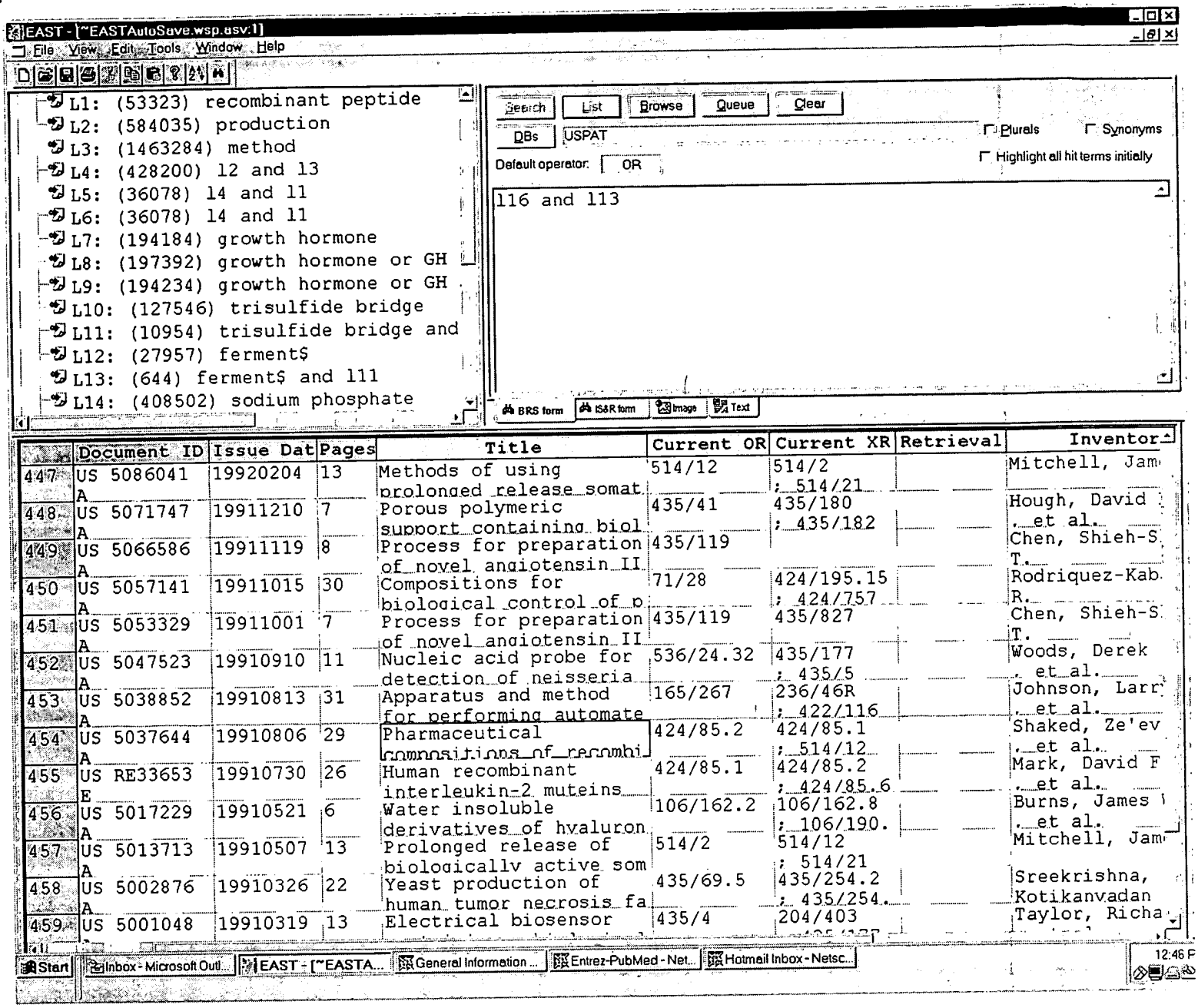

	Document ID	Issue Dat	Pages	Title	Current OR	Current XR	Retrieval	Inventor
447	US 5086041 A	19920204	13	Methods of using prolonged release somat	514/12	514/2 ; 514/21		Mitchell, Jam
448	US 5071747 A	19911210	7	Porous polymeric support containing biol	435/41	435/180 ; 435/182		Hough, David . et al.
449	US 5066586 A	19911119	8	Process for preparation of novel angiotensin II	435/119			Chen, Shieh-S. T.
450	US 5057141 A	19911015	30	Compositions for biological control of p	71/28	424/195.15 ; 424/757		Rodriquez-Kab. R.
451	US 5053329 A	19911001	7	Process for preparation of novel angiotensin II	435/119	435/827		Chen, Shieh-S. T.
452	US 5047523 A	19910910	11	Nucleic acid probe for detection of neisseria	536/24.32	435/177 ; 435/5		Woods, Derek . et al.
453	US 5038852 A	19910813	31	Apparatus and method for performing automate	165/267	236/46R ; 422/116		Johnson, Larr . et al.
454	US 5037644 A	19910806	29	Pharmaceutical compositions of recombi	424/85.2	424/85.1 ; 514/12		Shaked, Ze'ev . et al.
455	US RE33653 E	19910730	26	Human recombinant interleukin-2 muteins	424/85.1	424/85.2 ; 424/85.6		Mark, David F . et al.
456	US 5017229 A	19910521	6	Water insoluble derivatives of hyaluron	106/162.2	106/162.8 ; 106/190.		Burns, James . et al.
457	US 5013713 A	19910507	13	Prolonged release of biologically active som	514/2	514/12 ; 514/21		Mitchell, Jam
458	US 5002876 A	19910326	22	Yeast production of human tumor necrosis fa	435/69.5	435/254.2 ; 435/254.		Sreekrishna, Kotikanvadan
459	US 5001048	19910319	13	Electrical biosensor	435/4	204/403		Taylor, Richa

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PMID: 9265776 [PubMed - indexed for MEDLINE]

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Biotechnology (N Y). 1994 Feb;12(2):185-9.

PMID: 7764434 [PubMed - indexed for MEDLINE]

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Ubiquitin fusion technology: bioprocessing of peptides.

Pilon A, Yost P, Chase TE, Lohnas G, Burkett T, Roberts S, Bentley WE.

Proteinix Company, Gaithersburg, Maryland 20877, USA.

Ubiquitin fusion technology represents an emerging method for economically producing peptides and small proteins in the bacterium Escherichia coli. Our focus is on peptide production where the need for cost-effective, scaleable processes has recently been highlighted by Kelley (1996). There are two principal features: (1) the expression system consists of a suitable E. coli host strain paired with a plasmid that encodes the ubiquitin fusion and (2) an ubiquitin-specific protease, UCH-L3, which cleaves only C-terminal extensions from ubiquitin. In this work, multigram yields were obtained of four ubiquitin fusions derived from cell paste generated in single 10-L fermentations. All were expressed intracellularly and remained soluble at extremely high levels of expression. Bacterial freeze--thaw lysates contained over 95% pure ubiquitin fusion protein. All four fusions were efficiently cleaved to ubiquitin and the peptide products. In one case, the final yield of peptide was 1.08 g from 3 L of low cell density bacterial culture. The combination of exceptional overexpression of the ubiquitin--peptide fusion proteins and a robust and specific protease are unique advantages contributing to a cost-effective, scaleable, and generic bioprocess for peptide production.

PMID: 9265776 [PubMed - indexed for MEDLINE]

1: Protein Expr Purif 1998 Nov;14(2):185-91 Related Articles, Books, LinkOut

IDEAL

Production and purification of a recombinant human hsp60 epitope using the cellulose-binding domain in Escherichia coli.

Shpigel E, Elias D, Cohen IR, Shoseyov O.

The Faculty of Agriculture, The Hebrew University of Jerusalem, Rehovot, 76100, Israel.

The heat shock protein hsp60 plays a functional role in insulin-dependent diabetes mellitus. The hsp60 epitope p277 (aa 437-aa 460) is effective in vaccinating mice against diabetes. A synthetic peptide gene (p277) that encodes the human hsp60 epitope was cloned to the 3' end of the cellulose-binding domain gene (cbd). CBD-p277 was overexpressed in Escherichia coli and purified on a cellulose column. A methionine at the C-terminal end of CBD enabled CNBr cleavage between CBD and p277. After CNBr cleavage, free CBD and residual uncleaved CBD-p277 were recovered by cellulose chromatography. The p277 peptide was further purified on a RPC-FPLC column. The molecular weight of the recombinant peptide was confirmed by electrospray mass spectrometry. The recombinant peptide was found to be biologically active in assays involving clone C9 T-cell proliferation, lymph-node cell proliferation, and antibody production. Thus the use of CBD as an affinity tag and the utilization of affordable cellulose matrices offers an attractive method for the production and purification of recombinant peptides.

PMID: 9790880 [PubMed - indexed for MEDLINE]

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=> s reduction of trisulfied
L2            0 REDUCTION OF TRISULFIED

=> s reduction of trisulfide
L3            4 REDUCTION OF TRISULFIDE

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L3   ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2001 ACS
AN   2000:414146  CAPLUS
DN   133:222512
TI   New effective precursors for the formation of episulfides
AU   Abu-Yousef, Imad A.; Harpp, David N.
CS   Department of Chemistry, American University of Sharjah, Sharjah, United
     Arab Emirates
SO   Sulfur Lett. (2000), 23(3), 131-137
     CODEN: SULED2; ISSN: 0278-6117
PB   Harwood Academic Publishers
DT   Journal
LA   English
OS   CASREACT 133:222512
RE.CNT  14
RE
(3) Abu-Yousef, I; J Org Chem 1997, V62, P8366 CAPLUS
(4) Abu-Yousef, I; J Org Chem 1998, V63, P8654 CAPLUS
(5) Abu-Yousef, I; Sulfur Rep 1997, V20, P1 CAPLUS
(6) Abu-Yousef, I; Tetrahedron Lett 1993, V34, P4289 CAPLUS
(7) Abu-Yousef, I; Tetrahedron Lett 1994, V35, P7167 CAPLUS
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L3   ANSWER 2 OF 4  CAPLUS  COPYRIGHT 2001 ACS
AN   1992:48660  CAPLUS
DN   116:48660
TI   Perthiyl radicals, trisulfide radical ions, and sulfate formation:  a
     combined photolysis and radiolysis study on redox processes with organic
     di- and trisulfides
AU   Everett, Steven A.; Schoeneich, Christian; Stewart, John H.; Asmus, Klaus
     Dieter
CS   Dep. Appl. Phys. Sci., Univ. Ulster, Newtownabbey, BT37 OQB, UK
SO   J. Phys. Chem. (1992), 96(1), 306-14
     CODEN: JPCHAX; ISSN: 0022-3654
DT   Journal
LA   English

L3   ANSWER 3 OF 4  CAPLUS  COPYRIGHT 2001 ACS
AN   1983:414099  CAPLUS
DN   99:14099
TI   High-pressure growth of polycrystalline molybdenum disulfide
AU   Srivastava, S. K.; Avasthi, B. N.; Das, B.; Basu, S.
CS   Dep. Chem., Indian Inst. Technol., Kharagpur, 721 302, India
SO   Mater. Lett. (1983), 1(5-6), 178-80
     CODEN: MLETDJ
DT   Journal
LA   English

L3   ANSWER 4 OF 4  CAPLUS  COPYRIGHT 2001 ACS
AN   1982:562100  CAPLUS
DN   97:162100
TI   Mechanism of reduction of bis(2-hydroxyethyl) trisulfide by eaq- and
```

.bul.CO2-. Spectrum and scavenging of RSS.bul. radicals
AU Wu, Zhennan; Back, Thomas G.; Ahmad, Rizwan; Yamdagni, Raghav; Armstrong, David A.
CS Dep. Chem., Univ. Calgary, Calgary, AB, T2N 1N4, Can.
SO J. Phys. Chem. (1982), 86(22), 4417-22
CODEN: JPCHAX; ISSN: 0022-3654
DT Journal
LA English

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